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**From:** Michael Ritorto [mritorto@rouxinc.com]  
**Sent:** 9/14/2017 11:50:09 AM  
**To:** Cirian, Mike [Cirian.Mike@epa.gov]  
**CC:** Andrew Baris [abaris@rouxinc.com]; John.Stroiazza@glencore-ca.com; Steve Wright - CFAC [swright@cfaluminum.com]; Stoops, Thomas [TStoops@mt.gov]; Gunnar Emilsson [EmilssonGR@cdmsmith.com]; Laura Jensen [ljensen@rouxinc.com]; lidewitt@mt.gov; cowen@mt.gov  
**Subject:** RE: CFAC Phase I Site Characterization Report - Geochemical data

Thank you Mike.

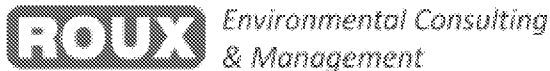
We will note in in the report.

**Michael Ritorto | Principal Hydrogeologist/Office Manager | Roux Associates, Inc.**

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**From:** Cirian, Mike [mailto:Cirian.Mike@epa.gov]  
**Sent:** Wednesday, September 13, 2017 7:51 PM  
**To:** Michael Ritorto <mritorto@rouxinc.com>  
**Cc:** Andrew Baris <abaris@rouxinc.com>; John.Stroiazza@glencore-ca.com; Steve Wright - CFAC <swright@cfaluminum.com>; Stoops, Thomas <TStoops@mt.gov>; Gunnar Emilsson <EmilssonGR@cdmsmith.com>; Laura Jensen <ljensen@rouxinc.com>; lidewitt@mt.gov; cowen@mt.gov  
**Subject:** RE: CFAC Phase I Site Characterization Report - Geochemical data

Michael,

I concur with the removal of the text and related info. Let's make sure this is noted in the Phase I Data Summary report that is has been removed and will only include the Round 4 data. We can discuss this in more detail if anyone has any questions in regards to this item.

Thanks,

Mike

Mike Cirian, PE  
Libby On-site Project Manager  
US EPA  
108 East 9th Street  
Libby, MT 59923  
(406) 293-6194 Office

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**From:** Michael Ritorto [<mailto:mritorto@rouxinc.com>]

**Sent:** Tuesday, September 12, 2017 3:21 PM

**To:** Cirian, Mike <[Cirian.Mike@epa.gov](mailto:Cirian.Mike@epa.gov)>

**Cc:** Andrew Baris <[abaris@rouxinc.com](mailto:abaris@rouxinc.com)>; John Strojazzo <[John.Strojazzo@glencore-ca.com](mailto:John.Strojazzo@glencore-ca.com)>; Steve Wright - CFAC

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Laura Jensen <[ljensen@rouxinc.com](mailto:ljensen@rouxinc.com)>; lidewitt@mt.gov; cowen@mt.gov

**Subject:** CFAC Phase I Site Characterization Report - Geochemical data

Mr. Cirian,

As discussed, Roux plans to remove the text and appendices related to the Piper Plots and Stiff Diagrams referenced in the general geochemistry sections of the Phase I Data Summary Report prior to finalization of the Report. Upon further review of the data, it was determined that calcium carbonate values were utilized rather than bicarbonate and carbonate values, resulting in the output of incorrect piper and stiff diagrams. Bicarbonate and carbonate (as alkalinity) was not analyzed until Round 4 of the groundwater sampling event, and therefore, piper and stiff diagrams utilizing the Round 4 data will be submitted and analyzed as part of the Groundwater and Surface Water Data Summary Report. Please note that creation of Piper Plots and Stiff Diagrams were not included in the RI/FS Work Plan Scope of Work. These analyses were requested in the first round of comments received from EPA/MDEQ, which was after the third round of groundwater and surface water sampling was already complete.

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